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PATENT  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE PATENT APPLICATION OF: USAMA M. FAYYAD ET AL.

Serial No. 09/540,637 Examiner: not yet assigned

Filed 03/31/00 Group Art Unit 2756

Title: CLUSTER-AND DESCRIPTOR-BASED  
RECOMMENDATIONS

Docket 15-956 - 4254

Assistant Commissioner for Patents  
Washington, D.C. 20231

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**REVOCATION AND POWER OF ATTORNEY**

The undersigned, owner of the entire right, title and interest in and to an application for letters patent for CLUSTER-AND DESCRIPTOR-BASED RECOMMENDATIONS, Serial No. 09/540,637 filed March 31, 2000 hereby revokes all previous powers of attorney and appoints each of the following attorneys, all of whom are associated with Watts, Hoffmann, Fisher & Heinke Co., L.P.A. (Telephone No. 216/241-6700, Facsimile No. 216/241-8151), an attorney of record to prosecute this application and to transact all business in the Patent Office connected therewith: Thomas E. Fisher, Reg. No. 18,271; Lowell L. Heinke, Reg. No. 19,471; James G. Watterson, Reg. No. 20,180; Linn J. Raney, Reg. No. 23,078; John R. Hlavka, Reg. No. 29,076; Stephen J. Schultz, Reg. No. 29,108; Richard A. Sharpe, Reg. No. 34,722; George L. Pinchak, Reg. No. 37,697; Paul A. Serbinowski, Reg. No. 34,429; Kenneth J. Smith, Reg. No. 45,115; William A. Johnston, Reg. No. 47,687 and Jennifer Nock Hinton, Reg. No. 47,653 and the following attorney(s), all of whom are associated with Microsoft Corporation having an address of One Microsoft Way, Redmond, Washington 98052-6399, namely, Daniel D. Crouse, Reg. No. 32,022 and Katie E. Sako, Reg. No. 32,628 and hereby appoints the foregoing Stephen J. Schultz, Reg. No. 29,108 principal attorney.

And hereby designates as mailing address the office of:

WATTS, HOFFMANN, FISHER & HEINKE CO., L.P.A.  
1100 Superior Ave., Ste. 1750  
Cleveland, OH 44114

I hereby certify that this paper is being deposited with the U.S. Postal Service as 1st Class Mail addressed to the Assistant Commissioner of Patents, Washington, D.C. 20231

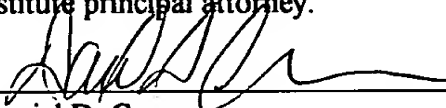
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on 6/18/01  
Karen Buzinski



The undersigned hereby further designates and appoints any officer of Watts, Hoffmann, Fisher & Heinke Co., L.P.A. his attorney in fact with full power of substitution and revocation, including power to designate a substitute principal attorney.

Date 6/5/01

  
\_\_\_\_\_  
Daniel D. Crouse  
Assistant Secretary

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